

**ABSTRACT OF THE DISCLOSURE**

A system for recording trigger events and noise in conjunction with the recording of physiological signals is provided for use in an implantable medical device. In one embodiment, recorded trigger and noise data is provided for display to a physician along with reconstructed ECG data to facilitate interpretation of the ECG signal. In one embodiment, digitized ECG samples that are outside of a predetermined range are discarded during the sampling process so that one or more ranges of encoded values are available for use in encoding noise and trigger information. This non-physiologic data may be limited in size to individual point values of the ECG signal.